

TECHNICAL DATA SHEETS | EN-14411

DEKTON®
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DEKTON® XGLOSS

Families I - II – III - IV

All the data collected in this document are based on tests carried out in independent external laboratories.

Manufacturer's name and place of production:
Company: Cosentino S.A.U.
Address: A-334 road, km 59, postal code 04850 Cantoria (Almeria) - Spain

Rev.12 - 03/2020

DEKTON[®] TECHNICAL DATA SHEETS According to STANDARD EN-14411

Family I: (Aldem, Ananke, Borea, Bromo, Domoos, Eter, Fossil, Galema, Kadum, Kelya, Keon, Keranium, Kira, Korus, Kovik, Kreta, Laos, Laurent, Liquid Embers, Milar, Odin, Orix, Sirius, Sirocco, Soke, Strato, Valterra, Vegha, Ventus, Vera)

Family II: (Ariane, Aura, Aura I5, Entzo, Kairos, Liquid Shell, Liquid Sky, Lunar, Nayla, Nilium, Opera, Portum, Rem, Uyuni, Zenith)

Family III: (Aeris, Aged Timber, Bento, Blanc Concrete, Danae, Dove, Edora, Gada, Irok, Makai, Popular Dark, Popular Warm, Sarey, Sasea, Sterling)

Family IV: (Radium, Trilium)

Standard test	Determination	Unit	Family I	Family II	Family III	Family IV
Flexural tensile strength or modulus of rupture EN ISO 10545-4	Average flexural resistance	N/mm ²	46	45	55	46
	Average break load	N	2548	2313	2356	2568
	Average break strength	N	14966	13559	13818	15620
Water absorption, apparent porosity, density EN ISO 10545-3	Water absorption by boiling	%	0	0.1	0.1	0.1
	Water absorption by vacuum	%	0.1	0.1	0.1	0.1
	Open porosity	%	0.2	0.2	0.2	0.2
	Apparent relative density	g/cm ³	2.51	2.61	2.53	2.44
	Apparent density	g/cm ³	2.50	2.61	2.53	2.44
Resistance to deep abrasion EN ISO 10545-6	Wear volume	mm ³	125	106	115	119
Dimensions and surface quality EN ISO 10545-2	Length and width	%	0.11/-0.18	0.04/-0.08	0.04/-0.04	0.02/-0.02
	Thickness	%	0.50/-0.50	4.95/-2.20	0.53/-0.53	-1
	Straightness of sides	%	0.01/-0.01	0.03/-0.03	0.01/-0.03	0.02/-0.02
	Rectangularity	%	0.07/-0.16	0.04/-0.09	0.21/-0.21	0.08/-0.08
	Centre curvature	%	0.04/-0.08	-0.06	-0.06	-0.07
	Side curvature	%	0.06/-0.06	0.02/-0.04	0.02/-0.04	0.02/-0.02
	Warpage	%	-0.11	-0.07	-0.06	-0.04
	Surface quality	%	100	100	100	100
Impact resistance EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85	0.85	0.85	0.92
Determination of linear thermal expansion EN ISO 10545-8	Expansion 30-100°C	°C ⁻¹	6.5 · 10 ⁻⁶	5.1 · 10 ⁻⁶	6.3 · 10 ⁻⁶	5.8 · 10 ⁻⁶
Thermal shock resistance EN ISO 10545-9	Damage	-	No affected	No affected	No affected	No affected
Moisture expansion EN ISO 10545-10	Expansion max	mm/m	0.1	0.1	0.1	0.1
	Expansion mid	mm/m	0.0	0.0	0.0	0.1
Frost resistance EN ISO 10545-12	Damage	-	No affected	No affected	No affected	No affected
Resistance to chemicals EN ISO 10545-13	CINH ₄ / Cleaning products	Type	A (no damage)	A (no damage)	A (no damage)	A (no damage)
	Bleach/swimming pool salts	Type	A (no damage)	A (no damage)	A (no damage)	A (no damage)
	HCl (3% v/v)	Type	LA (no damage)	LA (no damage)	LA (no damage)	LA (no damage)
	Citric acid (100 g/l)	Type	LA (no damage)	LA (no damage)	LA (no damage)	LA (no damage)
	KOH (30 g/l)	Type	LA (no damage)	LA (no damage)	LA (no damage)	LA (no damage)
	HCl (18%)	Type	HA (no damage)	HA (no damage)	HA (no damage)	HA (no damage)
	Lactic acid (5%)	Type	HA (no damage)	HA (no damage)	HA (no damage)	HA (no damage)
	KOH (100 g/l)	Type	HA (no damage)	HA (no damage)	HA (no damage)	HA (no damage)
Resistance to staining EN ISO 10545-14	Green agent	Type	5	5	5	5
	Red agent	Type	-	-	-	-
	Iodine (solution)	Type	5	5	5	5
	Olive oil	Type	5	5	5	5

DEKTON® SLIPPERINESS

According to STANDARD EN-1423 I

Finishing	Color	Determination	Value
Matt			
Smooth Matt	Aeris, Aura, Aura 15, Danae, Domoos, Entzo, Eter, Fossil, Galema, Irok, Kadum, Kairos, Kelya, Keon, Keranium, Korus, Laos, Milar, Nayla, Nilium, Orix, Radium, Sarey, Sirocco, Sterling, Strato, Soke, Trilium, Uyuni, Vegha, Ventus, Zenith	USRV wet	Rd 15 - 35
Textured - Slate-like/limestone	Blanc Concrete, Bromo, Dove, Edora, Gada, Laurent, Liquid Embers, Liquid Sky, Sirius, Valterra	USRV wet	Rd 15 - 35
Textured - Wood-like	Aged Timber, Aldem, Ananké, Ariane, Bento, Borea, Makai, Odin	USRV wet	Rd 15 - 35
Velvet			
Velvet – Satin matt	Opera, Portum	USRV wet	Rd 15 - 35
Velvet texturizado	Liquid Shell, Rem	USRV wet	Rd 15 - 35

According to DIN 51130 and DIN 51097

Finishing	Color	Determination	Value (°)	Type
Matt				
Smooth Matt	Aeris, Aura, Aura 15, Danae, Domoos, Entzo, Eter, Fossil, Galema, Irok, Kadum, Kairos, Kelya, Keon, Keranium, Korus, Laos, Milar, Nayla, Nilium, Orix, Radium, Sarey, Sirocco, Sterling, Strato, Soke, Trilium, Uyuni, Vegha, Ventus, Zenith	DIN 51130 DIN 51097	7.2 8	R9 –
Textured-Slate-like/limestone	Blanc Concrete, Bromo, Dove, Edora, Gada, Laurent, Liquid Embers, Liquid Sky, Sirius, Valterra	DIN 51130 DIN 51097	6.7 9	R9 –
Textured - Wood-like	Aged Timber, Aldem, Ananké, Ariane, Bento, Borea, Makai, Odin	DIN 51130 DIN 51097	5.7 14	– A
Velvet				
Velvet – Satin matt	Opera, Portum	DIN 51130 DIN 51097	2,8 14	– A
Velvet textured	Liquid Shell, Rem	DIN 51130 DIN 51097	8,2 14	R9 A

Dekton Grip+ colors: Keon, Kreta, Orix, Soke, Vera, Aura 15 (**), Danae (**), Kira (**), Laos (**), Lunar (**), Nayla (**), Nilium (**), Makai (**), Sirocco (**), Strato (**), Trilium (**)

Finishing	Norm	Value/Class
Grip+	DIN 51130 DIN 51097 UNE- ENV 12633 (Pendulum) ANSI A137.1 DCOF	R11 C > 45 ≥ 0.69

(**) Ongoing test.

(**) Confirm application for these colors.

DEKTON[®] XGLOSS TECHNICAL DATA SHEETS According to STANDARD EN-14411

Familia I: (Blaze, Korso, Lumina, Manhattan, Sogne, Spectra, Splendor)

Familia II: (Bergen, Fiord, Glacier, Halo, Helena, Natura, Natura 18, Tundra, Tundra 19, Olimpo, Vienna)

Familia III: (Arga, Khalo, Qatar, Taga)

Standard test	Determination	Unit	Family I	Family II	Family III
Flexural tensile strength or modulus of rupture UNE EN ISO 10545-4	Average flexural resistance	N/mm ²	46	45	55
	Average break load	N	2548	2313	2356
	Average break strength	N	14966	13559	13818
Water absorption, apparent porosity, density UNE EN ISO 10545-3	Water absorption by boiling	%	0	0.1	*
	Water absorption by vacuum	%	0.1	0.1	*
	Open porosity	%	0.2	0.2	*
	Apparent relative density	g/cm ³	2.51	2.61	*
	Apparent density	g/cm ³	2.50	2.61	*
Resistance to deep abrasion UNE EN ISO 10545-6	Wear volume	mm ³	125	106	*
Dimensions and surface quality UNE EN ISO 10545-2	Length and width	%	0.11/-0.18	0.04/-0.08	*
	Thickness	%	0.50/-0.50	4.95/-2.20	*
	Straightness of sides	%	0.01/-0.01	0.03/-0.03	*
	Rectangularity	%	0.07/-0.16	0.04/-0.09	*
	Centre curvature	%	0.04/-0.08	-0.06	*
	Side curvature	%	0.06/-0.06	0.02/-0.04	*
	Warpage	%	-0.11	-0.07	*
Surface quality	%	100	100	*	
Impact resistance UNE EN ISO 10545-5	Coefficient of restitution (COR)	-	0.85	0.85	*
Determination of linear thermal expansion UNE EN ISO 10545-8	Expansion 30-100°C	°C ⁻¹	6.5 · 10 ⁻⁶	5.1 · 10 ⁻⁶	*
Thermal shock resistance UNE EN ISO 10545-9	Damage	-	No affected	No affected	*
Moisture expansion UNE EN ISO 10545-10	Expansion max	mm/m	0.1	0.1	*
	Expansion mid	mm/m	0.0	0.0	*
Frost resistance UNE EN ISO 10545-12	Damage	-	No affected	No affected	*
Resistance to chemicals UNE EN ISO 10545-13	CINH ₄ / Cleaning products	Type	A (no damage)	A (no damage)	A (no damage)
	Bleach / Swimming pool salts	Type	A (no damage)	A (no damage)	A (no damage)
	HCl (3% v/v)	Type	LA (no damage)	LA (no damage)	LA (no damage)
	Citric acid (100 g/l)	Type	LA (no damage)	LA (no damage)	LA (no damage)
	HCl (18%)	Type	HA (no damage)	HA (no damage)	HA (no damage)
	Lactic acid (5%)	Type	HA (no damage)	HA (no damage)	HA (no damage)
Resistance to staining UNE EN ISO 10545-14	Green agent	Type	5	5	*
	Red agent	Type	-	-	*
	Iodine (solution)	Type	5	5	*
	Olive oil	Type	5	5	*

(*) Ongoing test.

DEKTON[®] XGLOSS SLIPPERINESS

According to STANDARD EN-14231

Finishing	Color	Determination	Value
Polished	Arga, Bergen, Blaze, Fiord, Glacier, Halo, Helena, Khalo, Korso, Lumina, Manhattan, Natura, Natura I8, Olimpo, Qatar, Sogne, Spectra, Splendor, Taga, Tundra, Tundra I9, Vienna	USRV humid	<15

According to DIN 51130 and DIN 51097

Finishing	Color	Determination	Value (°)
Polished	Arga, Bergen, Blaze, Fiord, Glacier, Halo, Helena, Khalo, Korso, Lumina, Manhattan, Natura, Natura I8, Olimpo, Qatar, Sogne, Spectra, Splendor, Taga, Tundra, Tundra I9, Vienna	DIN 51130 DIN 51097	1.1 8